

# Antonis Maronikolakis, PhD Student

[github](#)[email](#)[linkedin](#)[website](#)[scholar](#)

## Education

- PhD* Supervised by Hinrich Schütze January 2020 - Current  
Ludwig-Maximilians-Universität, Munich, Germany  
Topic: Hate Speech Detection and Analysis  
Expected Graduation Date: after 06/2023
- MSc* Speech and Language Processing - First Honours (1:1) September 2018 - September 2019  
University of Sheffield, Sheffield, UK  
Thesis: Text Generation for News Headlines
- BSc* Computer Science - 8.4/10.0 (Upper 2:1) October 2014 - June 2018  
University of Piraeus, Athens, Greece  
Thesis: Approximation and Heuristic Algorithms for Ridesharing

## Publications

### 2022

[Listening to Affected Communities to Define Extreme Speech: Dataset and Experiments](#). Antonis Maronikolakis, Axel Wisioerek, Leah Nann, Haris Jabbar, Sahana Udupa and Hinrich Schütze. 2022. In Findings of the Association for Computational Linguistics: ACL 2022.

[Ethical Scaling for Content Moderation: Extreme Speech and the \(In\)Significance of Artificial Intelligence](#). Sahana Udupa, Antonis Maronikolakis, Hinrich Schütze, Axel Wisioerek. 2022. Harvard Kennedy School, Shorenstein Center.

[Separating Hate Speech and Offensive Language Classes via Adversarial Debiasing](#) Shuzhou Yuan, Antonis Maronikolakis, Hinrich Schütze. 2022. The 6th Workshop on Online Abuse and Harms (NAACL).

[Analyzing Hate Speech Data along Racial, Gender and Intersectional Axes](#). Antonis Maronikolakis, Philip Baader, Hinrich Schütze. 2022. 4th Workshop on Gender Bias in Natural Language Processing (NAACL).

### 2021

[Wine is Not v i n. – On the Compatibility of Tokenizations Across Languages](#). Antonis Maronikolakis, Philipp Dufter, and Hinrich Schütze. 2021. In Findings of the Association for Computational Linguistics: EMNLP 2021.

[BERT Cannot Align Characters](#). Antonis Maronikolakis, Philipp Dufter, and Hinrich Schütze. 2021. In Proceedings of the Second Workshop on Insights from Negative Results in NLP (EMNLP).

[Artificial Intelligence, Extreme Speech, and the Challenges of Online Content Moderation](#). Sahana Udupa, Elonnai Hickok, Antonis Maronikolakis, Hinrich Schuetze, Laura Csuka, Axel Wisioerek, Leah Nann. 2021. AI4Dignity Project. EU Commission Policy Brief.

[Identifying Automatically Generated Headlines Using Transformers](#). Antonis Maronikolakis, Hinrich Schütze, and Mark Stevenson. 2021. In Proceedings of the Fourth Workshop on NLP for Internet Freedom: Censorship, Disinformation, and Propaganda (NAACL).

[Multidomain Pretrained Language Models for Green NLP](#). Antonis Maronikolakis and Hinrich Schütze. 2021. In Proceedings of the Second Workshop on Domain Adaptation for NLP (EACL).

### 2020

[Analyzing Political Parody in Social Media](#). Antonis Maronikolakis, Danae Sánchez Villegas, Daniel Preotiuc-Pietro, and Nikolaos Aletras. 2020. In Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics.

## Professional Experience

NLP Researcher at [AI4Dignity](#)

- *Hate Speech Data Analysis for Marginalized Global Communities* January 2021 - December 2021

- Worked in a multi-disciplinary team of NLP researchers, anthropologists and fact-checkers.
- Led data collection and annotation efforts culminating in a dataset of 20k examples and multiple label categories from a team of 13 annotators spanning 4 countries (Brazil, Germany, India and Kenya).
- Developed machine learning models, performed data analysis and deployed a proof-of-concept tool to combat hate speech in the examined countries.
- Our work and dataset is to be published in Findings of ACL 2022. As an extension of our work, we have also published a policy brief at the EU Commission.

Speech Processing Practitioner for [VoiceBase](#) Research Lab

- *Analyzed Variational Autoencoders and Phrase Detection methods* November 2018 - August 2019

- As part of Dr. Thomas Hain's VoiceBase research lab, I assisted researchers by exploring a novel Variational Autoencoder structure, alongside work on Phrase Detection and Extraction.
- Analyzed and ran experiments with the Factorized Hierarchical Variational Autoencoder [repository](#) and on various Phrase Detection algorithms.
- Set up and documented experiment configurations for [ESPN](#) and [DeepSpeech](#).

AI Programmer/Writer for Google Summer of Code

- *Mentored under Dr. Peter Norvig, working on AI algorithms* June - September 2017

- Worked on the [Python repository](#) of Dr. Norvig's book, *Artificial Intelligence: A Modern Approach*.
- Implemented, evaluated and wrote about Natural Language Processing and Machine Learning algorithms and concepts.
- Collaborated with Dr. Norvig to polish pseudocode from the book.
- After the end of the project, I was given administrator rights to the repository.

## Tools & Technologies

Python, HuggingFace Ecosystem, LaTeX, Bash

## Awards

- Scholarship for academic excellence - 2016-2017, 2017-2018
- Kaggle Machine Learning Competitions (2018) - Silver and Bronze Medals
- Microsoft Imagine Cup Competition (2015 and 2016) - National Finalist
- National Computer Science Competition 2014 - Finalist